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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,772	07/15/2003	Bumman Kim	07720012US	6041	
7:	590 09/21/2004		EXAMINER		
McGuireWoods			MOTTOLA, STEVEN J		
Suite 1800 1750 Tysons Boulevard			ART UNIT	PAPER NUMBER	
McLean, VA 22102-4215			2817		
	·		DATE MAILED: 09/21/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/618,772	KIM ET AL.					
Office Action Summary	Examiner	Art Unit					
	Steven J. Mottola	2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
• • • • • • • • • • • • • • • • • • • •							
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-13 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5,8 and 9</u> is/are rejected.	·						
7) Claim(s) 6.7 and $10-13$ is/are objected to.	7)⊠ Claim(s) <u>6,7 and 10-13</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)				

Application/Control Number: 10/618,772

Art Unit: 2817

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4,8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitzlaff.

Refer to fig. 1 of Mitzlaff. Treating claim 1 first, quadrature splitter 103 of Mitzlaff splits the input signal and may be read as the claimed splitter. Then the carrier amp nias control 111 and peaking amp bias control 113 of Mitzlaff may be read as the first and second bias control networks of the claim because they are responsive to the input signal level (via coupler 101 and detector 109) to alternate their operation at predetermined threshold levels of the detector output (which will vary with the input signal) as shown in figs. 5A,5B of Mitzlaff. Then amplifiers 105,107 of Mitzlaff may be read as the Doherty amplifier of the claim and combiner 115 of Mitzlaff may be read as the Doherty output network of the claim. Regarding claim 2, as explained in the first paragraph of col. 3 of Mitzlaff, the carrier amp is biased at a low level and the peaking amp tuned off as claimed at low input signal levels. They should operate class AB as a normal Doherty amp for higher input levels. Regarding claims 3-4, the input where the bias controls 111,113 receive the output of the detector may be read as the Vcont pins claimed and the output where the bias controls 111,113 supply control voltages may be read as the Vref pins claimed. See the terminals of figs. 3-4. Regarding claims 8-9, note transmission line 117 of Mitzlaff.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mitzlaff.

The difference between claim 5 and Mitzlaff is the specific voltage levels fed to the bias control networks, which vary slightly from the examples given in col. 5 of Mitzlaff.

However, the exact voltage used would be a result effective variable set by component values, input signal level ,etc. and cannot of itself be considered patentably distinct from Mitzlaff.

Claims 6,7 and 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The attenuator of claim 6 and third and fourth transmission lines of claim 10 are not shown in the prior art of record in the context claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Mottola whose telephone number is 571-272-1766. The examiner can normally be reached on M-Th from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal, can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven J. Mottola Primary Examiner